CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/KJ/W.No.14/CSR-04/317d/CEMENT/2017-18 Date: 12.04.2017

TEST REPORT ON CEMENT

*** Customer**	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. K. Jagadish,** #3424, 6th Cross, Gayathrinagar, Bangalore – 560 021.
*** Name of Work**	:	Construction of culverts at Soundarya Layout, Vishveshwraiah Layout, Manjunatha Nagara, Difence Colony and Vijayalakshmi Layout, Bagalagunte in Ward No.14, BBMP, Bangalore.
*** Reference**	:	BBMP/DZ/AEE/TDSD/PR/16/2017-18 Dated: 10.04.2017
*** Sample ID**	:	Cement – Sample 2
Sample Received on	:	10.04.2017
Period of Testing	:	10.04.2017 to 12.04.2017

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The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	28.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	470 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ
ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

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VIDYARANI P.K.
Technical Manager

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Job No.: CTCE/BBMP/KJ/W.No.14/Steel/2017-18 15.04.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. K. Jagadish,** #3424, 6th Cross, Gayathrinagar, Bangalore – 560 021.
* Name of Sub work	:	Construction of culverts at Soundarya Layout, Vishveshwraiah Layout, Manjunatha Nagara, Difence Colony and Vijayalakshmi Layout, Bagalagunte in Ward No.14, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/16/2017-18 Dated: 10.04.2017
* Samples ID	:	10 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	15.04.2017

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Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	514	516	13.35	O.K	O.K

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Basaveshwaranagar, Bangalore-560 079.

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Job No.: CTCE/BBMP/KJ/W.No.14/CSR-04/317d/Cube/2017-18

16.05.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. K. Jagadish,** #3424, 6th Cross, Gayathrinagar, Bangalore – 560 021.
* Name of the work	:	Construction of culverts at Soundarya Layout, Vishveshwraiah Layout, Manjunatha Nagara, Difence Colony and Vijayalakshmi Layout, Bagalagunte in Ward No.14, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/16/2017-18 Dated: 10.04.2017
* Sample ID	:	Culvert Deck Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	16.05.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.04.2017	16.05.2017	8.193	359.8	15.99
2	18.04.2017	16.05.2017	8.228	367.7	16.34
3	18.04.2017	16.05.2017	8.342	381.9	16.97

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Job No.: CTCE/BBMP/KJ/W.No.14/CSR-04/317d/Cube/2017-18 17.05.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer**	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. K. Jagadish,** #3424, 6th Cross, Gayathrinagar, Bangalore – 560 021.
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*** Reference**	:	BBMP/DZ/AEE/TDSD/PR/16/2017-18 Dated: 10.04.2017
*** Sample ID**	:	Culvert Deck Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	17.05.2017

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Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.04.2017	17.05.2017	8.254	363.4	16.15
2	19.04.2017	17.05.2017	8.367	374.8	16.66
3	19.04.2017	17.05.2017	8.412	389.7	17.32

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Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	18.05.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.04.2017	18.05.2017	8.195	367.9	16.35
2	20.04.2017	18.05.2017	8.228	380.4	16.91
3	20.04.2017	18.05.2017	8.334	395.6	17.58

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